

IN THE CLAIMS

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38. (previously presented) Glass for a light filter having a coefficient of thermal expansion within a range from $90 \times 10^{-7}/^{\circ}\text{C}$ to $120 \times 10^{-7}/^{\circ}\text{C}$ within a temperature range from -20°C to $+70^{\circ}\text{C}$ and having a composition which comprises, in weight percent:

one or more ingredients selected from the group consisting of SiO_2 , B_2O_3 and P_2O_5 in the total amount of 35 - 55%, wherein the upper limit of SiO_2 is 41.5%;

one or more ingredients selected from the group consisting of TiO_2 , La_2O_3 , ZrO_2 , Nb_2O_5 , Ta_2O_5 , WO_3 and Y_2O_3 in the total amount of 20 - 45%, wherein TiO_2 is included within a range from 0 to 30% and ZrO_2 is included within a range from 0 to 5%;

one or more ingredients selected from the group consisting of MgO , SrO , BaO and ZnO in the total amount of 3 - 20%;

Na_2O within a range from 0 to 14.5%; and

one or both of Sb_2O_3 and As_2O_3 in the total amount of 0 - 1%,

said glass being substantially free of Al_2O_3 , CdO , CaO and PbO .

39. (previously presented) Glass as defined in claim 38 which has Young's modulus of 75GPa or over.

40. (previously presented) Glass as defined in claim 38 which has Vickers hardness of 550 or over.

41. (previously presented) Glass as defined in claim 38 wherein light transmittance for plate thickness of 10mm

is 90% or over within a wavelength range from 950nm to 1600nm.

42. (previously presented) A light filter which is made by forming a dielectric film on glass as defined in claim 38.

43. (previously presented) Glass for a light filter having a coefficient of thermal expansion within a range from $90 \times 10^{-7}/^{\circ}\text{C}$ to $120 \times 10^{-7}/^{\circ}\text{C}$ within a temperature range from -20°C to $+70^{\circ}\text{C}$ and having a composition which comprises, in weight percent:

one or more ingredients selected from the group consisting of SiO_2 , B_2O_3 and P_2O_5 in the total amount of 35 - 55%, wherein the upper limit of SiO_2 is 41.5%;

TiO_2 within a range from 0 to 30%;

ZrO_2 within a range from 0 to 5%;

one or more ingredients selected from the group consisting of MgO , SrO , BaO and ZnO in the total amount of 3 - 20%;

one or more ingredients selected from the group consisting of Li_2O , Na_2O and K_2O in the total amount of 5 - 30%, wherein Na_2O is included within a range from 0 to 14.5% and

one or both of Sb_2O_3 and As_2O_3 in the total amount of 0 - 1%,

said glass being substantially free of Al_2O_3 , CdO , CaO and PbO .

44. (previously presented) Glass as defined in claim 43 which has Young's modulus of 75GPa or over.

45. (previously presented) Glass as defined in claim 43 which has Vickers hardness of 550 or over.

46. (previously presented) Glass as defined in claim 43 wherein light transmittance for plate thickness of 10mm is 90% or over within a wavelength range from 950nm to 1600nm.

47. (previously presented) A light filter which is made by forming a dielectric film on glass as defined in claim 43.

48. (previously presented) Glass for a light filter having a coefficient of thermal expansion within a range from $90 \times 10^{-7}/^{\circ}\text{C}$ to $120 \times 10^{-7}/^{\circ}\text{C}$ within a temperature range from -20°C to $+70^{\circ}\text{C}$ and having a composition which comprises, in weight percent:

one or more ingredients selected from the group consisting of SiO_2 , B_2O_3 and P_2O_5 in the total amount of 35 - 55%, wherein the upper limit of SiO_2 is 41.5%;

one or more ingredients selected from the group consisting of TiO_2 , La_2O_3 , ZrO_2 , Nb_2O_5 , Ta_2O_5 , WO_3 and Y_2O_3 in the total amount of 20 - 45%, wherein TiO_2 is included within a range from 0 to 30%;

one or more ingredients selected from the group consisting of MgO , SrO , BaO and ZnO in the total amount of 3 - 20%;

one or more ingredients selected from the group consisting of Li_2O , Na_2O and K_2O in the total amount of 5 - 30%, wherein Na_2O is included within a range from 0 to 14.5%; and

one or both of Sb_2O_3 and As_2O_3 in the total amount of 0 - 1%,

said glass being substantially free of CaO and CdO .

49. (previously presented) Glass as defined in claim 48 which has Young's modulus of 75GPa or over.

50. (previously presented) Glass as defined in claim 48 which has Vickers hardness of 550 or over.

51. (previously presented) Glass as defined in claim 48 wherein light transmittance for plate thickness of 10mm is 90% or over within a wavelength range from 950nm to 1600nm.

52. (previously presented) Glass as defined in claim 48 which is substantially free of PbO.

53. (previously presented) A light filter which is made by forming a dielectric film on glass as defined in claim 48.

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